

ABSTRACT OF THE DISCLOSURE

Aspects of the invention include a method and apparatus to manage the cache memory of a disc drive. In one aspect the data rates of different file read and write threads are used to determine the minimum seek time to allow the cache to be used more efficiently. In another aspect, the read/write cache segments are adjusted by determining the summation of the ratio between read/write cache segment sizes and the respective data rates and then adjusting the segment sizes to minimize the seek times for the data streams.